

[CLAIMS]

1.-16. (CANCELED)

17. (CURRENTLY AMENDED) A heat exchanger (1a-o) comprising:

at least one group (200a-o) of at least two ~~calorie- and frigorie-emitting~~ thermal elements (2a-o), each ~~provided with~~ of the at least two thermal elements (2a-o) comprises at least one inlet orifice (21) and at least one outlet orifice (22) connected to each other by at least one conduit (20) traversing ~~[[said]] the thermal element (2a-o) capable of for receiving thermal fluid to recover at least one of calories and said frigories, and~~

a conduit connection means (3a-o) connecting the at least one conduit (20) to another conduit (20) and to at least one external circuit external of ~~[[said]] the heat exchanger (1a-o), wherein to recover the calories and/or frigories from the thermal fluid; and~~

the connection means ~~[[with]]~~ comprises at least one interface plate (3a-o) abutting ~~said the at least two~~ thermal elements (2a-o), ~~[[has]] the at least one interface plate having~~ at least one channel (34) with connecting orifices (30) located opposite the inlet orifices (21) and the outlet orifices (22) in ~~[[said]] the at least two~~ thermal elements (2a-o) and defining at least one interface circuit (4a-o) allowing said which facilitates circulation of the thermal fluid to circulate between ~~[[said]] the at least two~~ thermal elements (2a-o) and ~~[[said]] the at least one~~ interface plate (3a-o) through one of a series, a parallel, and a mixed connection, ~~[[said]] the at least one~~ interface plate (3a-o) also having at least one supply orifice (31) and at least one discharge orifice (32) which connect ~~[[said]] the interface circuit (4a-o) to said exterior circuit the at least one external circuit of the heat exchanger (1a-o).~~

18. (CURRENTLY AMENDED) The heat exchanger (1a-o) according to claim 17, wherein ~~the thermal elements (2a-o) alternately emit calories and frigories, and said at least one interface plate (3a-o) comprises at least two channels (34), each [[with]] of the at least two channels having~~ at least one supply orifice (31), one discharge orifice (32), and connecting orifices (30) and defining two distinct interface circuits (4a-o) that are connected to two external circuits of the heat exchanger (1a-o).

19. (WITHDRAWN) The heat exchanger (1k-o) according to claim 17, wherein the heat exchanger further comprises an additional group (200k-o) of thermal elements (2k-o), each of the groups having at least one interface plate (3k-o) and complementary connection means (300k-o) for connecting said interface plates (3k-o) to one another and the interface circuits of said corresponding groups (200k-o) in one of a series, a parallel, or a mixed connection.

20. (WITHDRAWN) The heat exchanger (1c-f) according to claim 17, wherein the connection means comprises at least two interface plates (3c1, 3c2-3f1, 3f2) superimposed back to back, each of the interface plates (3c1, 3c2-3f1, 3f2) comprising at least one channel (34), one supply orifice (31,) one discharge orifice (32), and connecting orifices (30) connected to a unit of thermal elements (2c-2f).

21. (WITHDRAWN) The heat exchanger (1e, 1f) according to claim 20, wherein the interface plates (3e1, 3e2, 3f1, 3f2) have traversing orifices (50) disposed opposite each other defining a common interface circuit.

22. (WITHDRAWN) The heat exchanger (1h) according to claim 17, wherein the channel (34) is at least partially formed of a network of perforations through a wall of said interface plate (3h) selectively blocked by plugs depending upon a function of the interface circuit (4h) to be formed.

23. (CURRENTLY AMENDED) The heat exchanger (1a-g, 1j-o) according to claim 17, wherein the channel (34) is at least partially formed by one or more grooves located on at least one surface of ~~[[said]]~~ the at least one interface plate (3a-g, 3j-o). ←

24. (PREVIOUSLY PRESENTED) The heat exchanger (1a-g, 1j-o) according to claim 23, wherein the one or more grooves are formed by machining, engraving, or casting.

25. (CURRENTLY AMENDED) The heat exchanger (1a-g, 1j-o) according to claim 23, wherein the connection means comprises at least one closing plate (5a-g, 5j) that is superimposed on ~~[[said]]~~ the surface of the at least one interface plate (3a-g, 3j) ~~on a grooved side which the one or more grooves are located to form~~ ~~[[said]]~~ the channel (34). ←

26. (WITHDRAWN-CURRENTLY AMENDED) The heat exchanger (1c-f) according to claim 21, wherein the connection means comprises two interface plates (3a-o), and a closing plate (4c-f) is located between the two interface plates (3c1, 3c2-3f1, 3f2) to form the channel (34). ←

27. (WITHDRAWN) The heat exchanger (1c, 1e, 1f) according to claim 26, wherein the closing plate (5c, 5e, 5f) comprises traversing orifices (50) opening into said channels (34) to connect the channels in a series, a parallel, or a mixed connection.

28. (WITHDRAWN) The heat exchanger (1f) according to claim 27, wherein the closing plate (5f) comprises a switch (6) movable between at least two positions so as to modify a mode of connection between said interface circuits.

29. (WITHDRAWN) The heat exchanger (1f) according to claim 28, wherein the switch (6) is chosen from the group comprising at least one of a slide block, a core, or a sliding unit and is governed by a control mechanism.

30. (CURRENTLY AMENDED) The heat exchanger (1a-o) according to claim 17, wherein the connection means comprises sealing elements located at least between ~~[[said]]~~ the thermal elements (2a-o) and ~~[[said]]~~ the at least one interface plate (3a-o). ←

31. (CURRENTLY AMENDED) The heat exchanger (1a-o) according to claim 30, wherein the sealing ~~means~~ elements are selected from the group ~~comprising~~ ←
consisting of a coating, a flouropolymer resin sheet, or a liquid seal. ←

32. (CURRENTLY AMENDED) The heat exchanger (1a-o) according to claim 17, wherein the ~~connection means~~ at least one interface plate (3a-o) is at least partially ←
made of a thermally insulating material.